

ATTACHMENT B

Facility Information Report For Dairies with Manure Anaerobic Digester or Co-Digester Facilities

To obtain coverage under Waste Discharge Requirements General Order No. R5-2010-XXXX (Order) the applicant must submit a complete Facility Information Report (FIR). The purpose of the FIR is to provide the California Regional Water Quality Control Board, Central Valley Region (Central Valley Water Board) staff with site-specific information that is needed to determine if the individual facility can be regulated under the Order.

The FIR must contain, at a minimum, all the elements listed in the sections below. The portions of the FIR that are related to facility and design specifications must be prepared by, or under the responsible charge of, and certified by a civil engineer or engineering geologist who is registered pursuant to California Law or other person as may be permitted under the provisions of the California Business and Professions Code to assume responsible charge of such work.

A. FACILITY SITING

1. Topographic map that identifies the property boundary, all existing nearby (within 2,000 feet) domestic, irrigation, and municipal supply wells and groundwater monitoring wells, utilities, surface water bodies, drainage courses and their tributaries/destinations, and other major physical and man-made features, as appropriate.
2. Section, township, and range in which the dairy and digester/co-digester facility is located.
3. The County Assessor parcel number(s) for the dairy and digester/co-digester production areas.
4. The County Assessor parcel number(s) for each land application area (where manure, process wastewater, and/or digestate/soil amendment is applied under control of the owner or operator and whether it is owned, rented, or leased).
5. Identify whether the facility is within a 100-year floodplain (for co-digester facilities this includes all land application areas where process wastewater, digestate/soil amendment would be applied). If the facility is located with a 100-year floodplain, an engineering report showing if the facility has adequate flood protection needs to be completed and included as an attachment to the FIR.

6. A description of the current land use within one mile of the perimeter of the facility.

B. HYDROGEOLOGY

1. Provide the anticipated depth to first encountered groundwater;
2. A site map (with an aerial photograph as the basemap) that identifies the location of all domestic, irrigation, and municipal supply wells and groundwater monitoring wells. Specify which wells are associated with the facility;
3. A copy of the well completion report and/or boring log for each well associated with the facility, as available;
4. A copy of all laboratory analysis reports for all groundwater sampling events that have been conducted at the facility; and
5. Include a copy of the Monitoring Well Installation and Sampling Plan (MWISP) as required by Section D.3 of the Monitoring and Reporting Program R5-2010-XXXX (MRP) as an attachment to the FIR. Within 45 days after the installation and completion of wells, submit a Monitoring Well Installation Completion Report as detailed in Attachment A of the MRP.

C. DAIRY FACILITY DESCRIPTION

1. A Site Map (or Maps) of appropriate scale to show property boundaries and the following in sufficient detail:
 - (a) The location of the features of the production area including:
 - 1) Structures used for digester/co-digester operation (ponds or tanks used for storage or digestion, feedstock storage, digestate storage, soil amendment storage), animal housing, milk parlor, and other buildings; corrals and ponds; solids separation facilities (settling basins or mechanical separators); other areas where animal wastes are deposited or stored; feed storage areas; drainage flow directions and nearby surface waters; all water supply wells (domestic, irrigation, and barn or digester wells) and groundwater monitoring wells; and
 - 2) Process wastewater (dairy and digester) conveyance structures, discharge points, and discharge/mixing points with irrigation water supplies; pumping facilities and flow meter locations; upstream diversion structures, drainage ditches and canals, culverts, drainage controls (berms/levees, etc.), and

drainage easements; and any additional components of the waste handling and storage system.

2. General Specification B.6 of the Order specifies that existing ponds which comply with General Specifications B-7 of the Dairy General Order (Order No. R5-2007-0035) may be utilized for a dairy manure only digester if the pond is not enlarged or reconstructed. Any new ponds or enlarged or reconstructed ponds to be used as a dairy manure digester or to store dairy or digester wastewater shall be designed and constructed to comply with the groundwater limitations of this Order and General Specification B.8, B.9, B.10 and B.11, prior to use.
 - (a) For existing dairy facilities, provide the design details for all existing wastewater retention ponds at the facility.
 - (b) If existing ponds do not comply with General Specification B.6, submit a pond design report as specified by General Specification B.8, B.9, B.10 and B.11.

D. LAND APPLICATION AREA DESCRIPTION

1. A map that identifies the location and features of all land application areas (land under the Discharger's control, whether it is owned, rented, or leased, to which solid manure, process wastewater, soil amendment, and/or digestate from the dairy digester facility is or may be applied for nutrient recycling including:
 - (a) Provide a field identification system (Assessor's Parcel Number; field by name or number; total acreage of each field; crops grown; indication if each field is owned, leased, or used pursuant to a formal agreement); indication what type of waste is applied (solid manure, process wastewater, soil amendment and/or digestate); drainage flow direction in each field, nearby surface waters, and storm water discharge points; tailwater and storm water drainage controls; subsurface (tile) drainage systems (including discharge points and lateral extent); irrigation supply wells and groundwater monitoring wells; sampling locations for discharges of storm water and tailwater to surface water from the field; and
 - (b) Process wastewater conveyance structures, discharge points and discharge mixing points with irrigation water supplies; pumping facilities; flow meter locations; drainage ditches and canals, culverts, drainage controls (berms, levees, etc.), and drainage easements.
2. Include a copy of the Nutrient Management Plan (NMP) as required by Required Reports and Notices H.1.a.ii of the General Order as an attachment to the FIR.

E. ANAEROBIC DIGESTER DESCRIPTION

1. Provide a map showing the proposed location of the anaerobic digesters components and flow of wastes in relation to the dairy facility.
2. Provide design information and a schematic showing how the anaerobic digester would be operated within the facility's waste management system. The schematic must identify all digester equipment and apparatuses (including, but not limited to, all piping, pumps, storage tanks, feedstock storage areas, and process wastewater and digestate storage).
3. For facilities proposing co-digestion (including facilities that will only accept additional dairy manure), identify the anticipated feedstocks that may be imported. This should also include an estimate for the volume, nutrient content, and non-nutrient salt content of the anticipated imported feedstocks.
4. If the facility will import liquid and/or semi solid feedstocks, describe how these wastes would be stored until such a time that they are incorporated into the digestion process.

F. WASTE MANAGEMENT PLAN

1. Include a Waste Management Plan (WMP) as required by Required Reports and Notices H.1.a.iii of the Order as an attachment to the FIR.

G. SALT MINIMIZATION PLAN

1. Include a Salt Minimization Plan (SMP) as required by Required Reports and Notices H.1.a.iv of the Order as an attachment to the FIR.